FIG. 1
RELATED ART

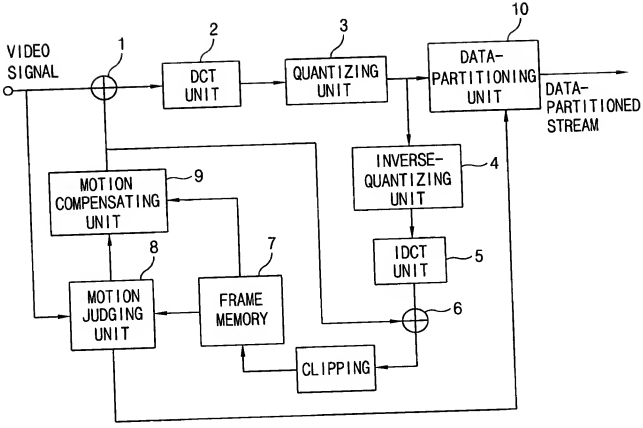


FIG. 2
RELATED ART

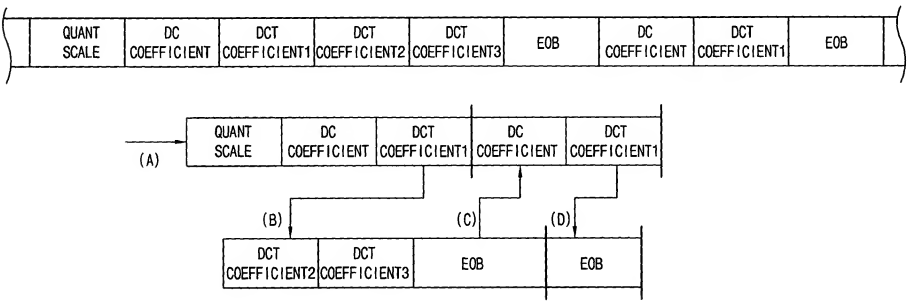


FIG. 3A
RELATED ART

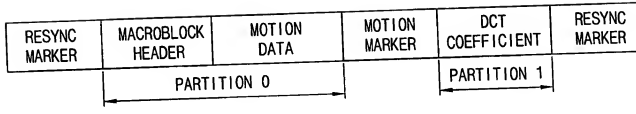


FIG. 3B
RELATED ART

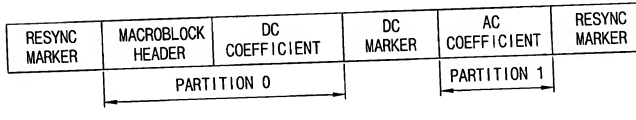


FIG. 4

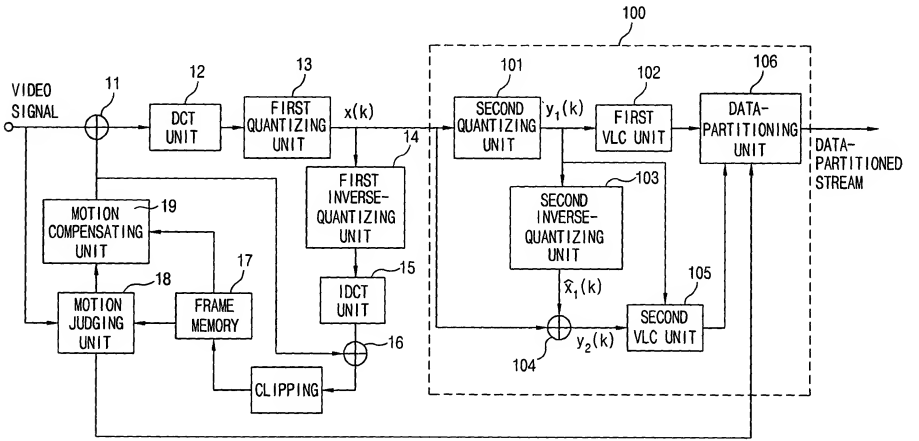

100
VIDEO SIGNAL
11
12
DCT UNIT
13
FIRST QUANTIZING UNIT
x(k)
14
FIRST INVERSE-QUANTIZING UNIT
15
IDCT UNIT
16
17
FRAME MEMORY
18
MOTION JUDGING UNIT
19
MOTION COMPENSATING UNIT
CLIPPING
101
SECOND QUANTIZING UNIT
$y_1(k)$
102
FIRST VLC UNIT
106
DATA-PARTITIONING UNIT
DATA-PARTITIONED STREAM
103
SECOND INVERSE-QUANTIZING UNIT
$\hat{x}_1(k)$
105
SECOND VLC UNIT
$y_2(k)$
104

FIG. 5

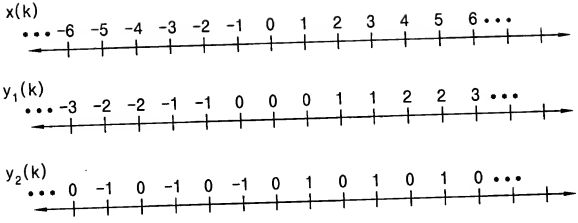


FIG. 6A

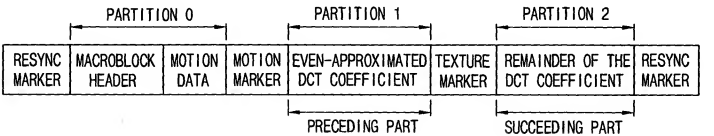

PARTITION 0
PARTITION 1
PARTITION 2
RESYNC MARKER
MACROBLOCK HEADER
MOTION DATA
MOTION MARKER
EVEN-APPROXIMATED DCT COEFFICIENT
TEXTURE MARKER
REMAINDER OF THE DCT COEFFICIENT
RESYNC MARKER
PRECEDING PART
SUCCEEDING PART

FIG. 6B

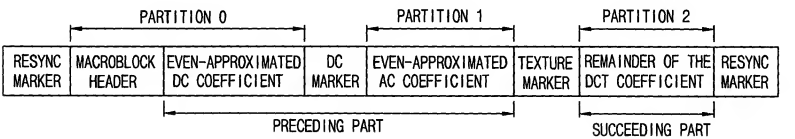

PARTITION 0
PARTITION 1
PARTITION 2
RESYNC MARKER
MACROBLOCK HEADER
EVEN-APPROXIMATED DC COEFFICIENT
DC MARKER
EVEN-APPROXIMATED AC COEFFICIENT
TEXTURE MARKER
REMAINDER OF THE DCT COEFFICIENT
RESYNC MARKER
PRECEDING PART
SUCCEEDING PART

FIG. 7

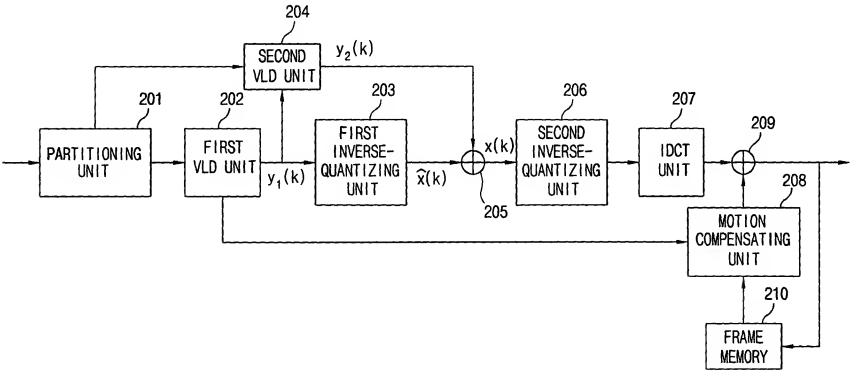

204
SECOND VLD UNIT
$y_2(k)$
201
202
203
206
207
209
PARTITIONING UNIT
FIRST VLD UNIT
$y_1(k)$
FIRST INVERSE-QUANTIZING UNIT
$\hat{x}(k)$
x(k)
205
SECOND INVERSE-QUANTIZING UNIT
IDCT UNIT
208
MOTION COMPENSATING UNIT
210
FRAME MEMORY

FIG. 8

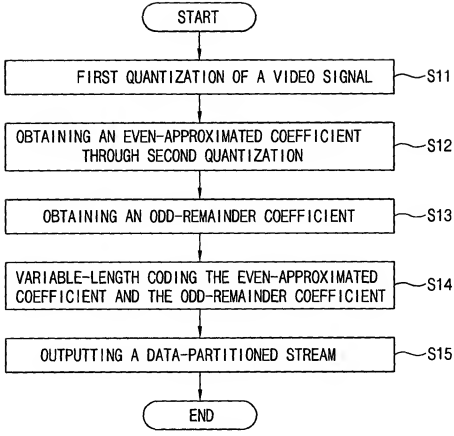
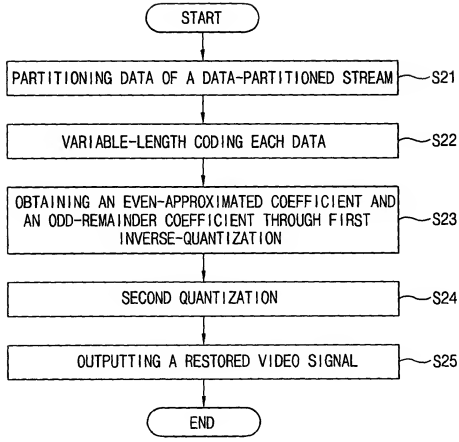

START
FIRST QUANTIZATION OF A VIDEO SIGNAL
S11
OBTAINING AN EVEN-APPROXIMATED COEFFICIENT THROUGH SECOND QUANTIZATION
S12
OBTAINING AN ODD-REMAINDER COEFFICIENT
S13
VARIABLE-LENGTH CODING THE EVEN-APPROXIMATED COEFFICIENT AND THE ODD-REMAINDER COEFFICIENT
S14
OUTPUTTING A DATA-PARTITIONED STREAM
S15
END

FIG. 9


START
PARTITIONING DATA OF A DATA-PARTITIONED STREAM
S21
VARIABLE-LENGTH CODING EACH DATA
S22
OBTAINING AN EVEN-APPROXIMATED COEFFICIENT AND AN ODD-REMAINDER COEFFICIENT THROUGH FIRST INVERSE-QUANTIZATION
S23
SECOND QUANTIZATION
S24
OUTPUTTING A RESTORED VIDEO SIGNAL
S25
END